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Treal mins are entirely enter based on relationships between corn development and temp-er enter a for a few properties of the pass of temperatures of the degrees fi. in dayline and the degrees for a few file dayline properties one modified, as 80 degrees fi. in dayline of mum for con of the advision properties of the dayline properties of the dayline for a delived prohing date and the eurome delete when filling forts on the expected one year in ten' is used to provide a feet only rotation for the dayline for the properties of the dayline for the properties of the dayline for the properties of the passed of the properties of the passed of the p Heat Units" are arbitrary values based on

HEAT UNITS

Yield differences of a few burshels probably one most significant for any one triol. Yet when one hybrid consistently out-yields another on a number one of test features over two or three years. The dimension of a few probability of the property of the p

Acre Yields

Since oil hybrids in a rivol are horvested on the come doth, the early hybrids within each toble than last hybrids within cost balobated in the same table. Therefore, stalk strength should be compared only with hybrids on the same table. Therefore, and the strength should be compared only with hybrids of the same maturity.

Broken Stalks

Motutity is the primary consideration in choice of hybrids of percentage percentage are percentage moisture of horvest itme is an indication of relative of hybrids and often early hybrids yield as, not often to the hybrids within any piece of the property of the propert

Moisture At Harvest

Direct comports on hybrids between tables between table is composed of averages obtained from different groups to table.

INTERPRETATION OF RESULTS

If soil conditions or any other factors usually delay planting until AFTER mid-May then DEDUCT 100 hear units from the rating in your vicinity for EACH week of delay and select hybrids accordingly.

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Penia's man Lead 0.025,-0.004
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If you farm where there Best performance will:

EXAMPLES:

Find the location of your form on the map and estimate the total the total the voluments one of the house plant com BERORE mid-May chapt the hybrids with a requirement no greater than the that vicinity.

FOR YOUR FARM BY HEAT UNITS choosing Hybrids

ion & Heat Units Available	s Available	Co-Operator	Date Plan	fed	Date	Harvested	Date Harvested Population
Malden	3500	W. G. Sellars	May 10	2	Oct	13	17,400
Woodslee	3400	Soil Substation	May	Ξ	Oct.	18	17,400
Fletcher	3300	Stan Wonnacoft	May	e,	Oct.	7	18,500
Ridgefown	3250	R.C.A.T.	May	4	Oct.	8	18,500
Wyoming	3050	Lawrence Markusse	May	9	Oct.	15	18,500
Fingal	3000	Julius Virag	May	7	Oct.	20	18,500
Smithfield	2900	Experimental Farm	May	13	Oct.	27	21,700
Brucefield	2850	Mrs. Malcolm Davidson	May	=	Oct.	15	20,900
Fullarton	2700	Murray Selves	May	7	Oct.	13	20,900
Ottawa	2650	Research Station	May	18	Oct.	18	19,400
Kemptville	2600	K.C.A.T.	May	14	Oct.	20	20,000
Elora	2550	O.A.C.	May	13	Oct.	19	20,900
Toholon	2500	Allon James	Mary	-	Nov	4	20.000

1971

LOCATION AND GENERAL INFORMATION —

tion & Heat Units	. Available	Co-Operator	Date Plan	fed	Date	ate Harvested	Population
Malden 3500	3500	W. G. Sellars	May 10	10	Oct.	13	17,400
Woodslee	3400	Soil Substation	May	Ξ	Oct.	18	17,400
Fletcher	3300	Stan Wonnacoff	May	e,	Oct.	7	18,500
Ridgefown	3250	R.C.A.T.	May	4	Oct.	80	18,500
Wyoming	3050	Lawrence Markusse	May	9	Oct.	15	18,500
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Ottawa	2650	Research Station	May	18	Oct.		19,400
Kemptville	2600	K.C.A.T.	May	14	Oct.		20,000
Elora	2550	O.A.C.	May	13	Oct.	16	20,900
Cobden	2500	Allan James	May	=	Nov.		20,000

ONTARIO CORN COMMITTEE

This organization is made up of represent-atives of the Canada Department of Agriculture, the Ontario Department of Agriculture, the University of Guelph, the Ontario Soil and Grod, the University of Guelph, the Ontario Soil and Grod Improvement Association, In-the Ontario Soed Corn Growers' Marketing Board and the Canadian Seed Growers' Association. Tests are conducted each year by the following Ca-operating Agencies: Research Station, Harrow

Ridgetown College of Agricultural Technology, Ridgetown Ontario Agricultural College, Guelph Kemptville College of Agricultural Technology, Kemptville Research Station, Ottawa Research Station, Smithfield

HYBRIDS TESTED

Hybrids meeting certain standards of performance are Recommended. The Recommended Hybrids are then entered in the Performance Trials as soon as seed is available and the results are shown in this folder. Hybrids not reported are those not recommended for the current year either because of lack of performance, non-availability of seed or because the hybrid is being discontinued.

TESTING METHODS

The seed used in the performance trials was obtained from samples of each hybrid taken at random by representatives of the Ontario Corn Committee on the premises of the producing com-

In each trial, hybrids were replicated in a suitable experimental design and received equal fertility and weed control. Trials were either hand or machine planted with an excess of seed and thinned at an early growth to obtain a uniform population. All trials were harvested with a mounted picker-sheller, except for Brucefield, Follarion, and Elora, and all ears were removed from the plots.

Immediately before harvest a count was made of all plants broken below the ear and from this count, the percentage of broken stalks was determined. The maisture percentage of the grain was determined to harvest time to indicate the relative maturity of each hybrid.

TESTING METHODS - (Continued)

The weight of grain harvested from each plot was determined and yield of shelled corn in bushels per acre was calculated and reported at 15 %

Silage yields were not taken in the Performance Trials, Experience has demonstrated that hybrids producing high grain yields also produce high silage yields. In the selection of a hybrid for silage purposes, the percentage of broken stalks may be a million consideration since corn is usually harvested for silgge before stalk breakage occurs

SOUTHERN CORN LEAF BLIGHT

Although not seriously affecting yields, Southern Corn Leaf Blight was commonly found throughout Ontario at the end of the 1971 season. For this reason the Seed Corn Dealers Association and the Ontario Corn Committee agreed that all seed corn sold for 1972 planting would again be tagged to indicate the method by which the seed was produced, i.e. N [normal], T (Texas male-sterile), or B (blend of N and T). Hybrids produced from normal cytoplasm a retolerant to race "T of Southern Corn Leaf Blight and to Yellow Leaf Blight while hybrids produced using Texas male-sterile cytoplasm are susceptible. Most of the 1971 seed production utilized normal cytoplasm so there should be enough "N' seed available to plant the 1972 crop. Although not seriously affecting yields, South-

SEED CORN DEALERS

TEXT SPANE AND ADDRESS OF THE PROPERTY OF THE 1972 RECOMMENDED HYBRIDS Publications 1972 REPORT Ontario Hybrid Corn CAZÓN AF -Z220

> Performance **Trials**

CONDUCTED IN 1970 & 1971 BY THE ONTARIO CORN COMMITTEE

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W. K. XXZ

A. K. XXXZ

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T-1 AVERAGE OF 2 TRIALS IN 1971 LOCATED IN 2500-2500 HEAT UNIT AREAS Heat Unit Areas High of Broken Stalls Ministure Are Yield at Skelfed Coin Areas Heat Hybrid Hy	T.7 Continued N. K. PX422 3W 13 24.6 112 N. K. PX426 3W 7 26.9 118 N. K. PX426 5C 5 24.4 128 N. K. PX20 5C 5 24.4 128 United BX16 OC 8 25.1 147 Pioneer 1851 DC 10 25.5 111 Pioneer 1853 DC 10 25.5 111 Pioneer 1853 DC 10 25.5 111 Pioneer 1853 DC 17 28.6 116 Pride R121 3W 9 26.7 100 Pride R121 3W 12 28.0 116 P.A.G. 5X48 5C 20 27.8 124 P.A.G. 5X49 5C 10 28.6 110 Pride R121 3W 5 26.7 105 Primits G410 5C 21 270 120 Pride R121 3W 5 26.7 105 Primits G410 5C 21 270 120 Pride R121 3W 5 26.7 105 Primits G421 3W 5 26.7 105 Primits G421 3W 5 27.7 127 Jacquer 3Y51 DC 12 28.8 134 P.A.G. 5X42 3W 8 29.7 177 Jacquer 5Y51 DC 12 28.3 111 Pride 280 DC 17 28.3 111 Pride 280 DC 11 273 117 Pride 280 DC 17 28.3 111 Pride 280 DC 17 27.5 157 Primits G4082 3W 31 27.5 157 Primits G4082 3W 31 27.5 157 Primits G4082 3W 31 27.5 170 Primits G4082 3W 3	T-8 AVERAGE OF 4 TRIALS IN 1970-1971 LOCATED IN 2900-3100 HEAT UNIT AREAS Heat Type A Horse Stalls Mount of the August 187, mobilities A Horse 187, m	Pride 280 DC 19 22.9 117
Durited 4 DC	Stewarts 2704 SC 42 22.8 112	T-9 AVERAGE OF 2 TRIALS IN 1971	T-11 AVERAGE OF 2 TRIALS IN 1971 LOCATED IN 3400-3500 HEAT UNIT AREAS
United 4 DC 14 255 122	Warvick 192 DC 14 26.6 111 Ca-Op 277 DC 6 24.8 113 Michigan 1752X SC 21 26.0 128 P.A.G. SX48 SC 14 23.3 117 P.A.G. SX48 DC 14 28.3 117 P.A.G. SX48 DC 16 27.3 123 D.A.G. SX48 DC 16 27.4 106 Ca-Op 270 DC 13 27.0 95 Garage 18723 W 11 27.7 107 Garage 18723 W 11 27.7 107 Garage 18723 W 12 27.3 118 Garage 18723 W 12 27.3 118 Finals G-110 SC 7 26.3 119 P.A.G. SX48 DC 17 27.3 119 P.A.G. SX48 DC 17 28.3 119 P.A.G. SX48 DC 18 27.3 119 P.A.G. SX48 DC 18 28.3 1	DeKaib X1316 3W 1 27.8 145 Pride R290 CC 6 2 27.8 145 Pride R290 CC 6 2 26.9 147 Warnick X140 CC 2 26.9 146 P.A.C.G. SX76 CC 2 25.4 127 Acco U3133 W 2 26.6 140 Belle River 30 SC 1 28.3 155 Dinited 172 SC 2 2 25.4 148 J. Fride R501 SC 1 28.3 155 D. Fride R501 SC 1 28.5 153 D. Fride R501 SC 2 2 25.5 153 D. Fride R502 SC 2 2 25.5 153 D. Fride R502 SC 1 28.6 153 D. Fride R502 SC 1 28.6 153 D. Fride R502 SC 1 28.6 139 D. Fride R502 SC 2 2 26.6 154 D. Fride R502 SC 2 2 26.6 D. Fride R502 SC 2 2 26.6 154 D. Fride R50	T-12 AVERAGE OF 4 TRIALS IN 1970-1971 LOCATED IN 3400-3500 HEAT UNIT AREAS Heati Hybrid Breien Stellt Area of the Stellt Area